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T Kimura, H Ago, M Tobita, S Ohshima, M Kyotani, M ... - Advanced Materials, 2002 - doi.wiley.com ... a free-standing aligned sin- gle-walled carbon nanotube (SWNT) film ... from imperfect nanotube alignment and carbon impuri- ties ... 19 J for a single MWNT, assuming ... Cited by 3 - Web Search

[CITATION] Vapor-grown carbon fibers (VGCFs): basic properties and their battery applications M Endo, YA Kim, T Hayashi, K Nishimura, T Matusita ... - Carbon, 2001 Cited by 18 - Web Search

## PROCESSING AND CHARACTERIZATION OF A CARBON NANOFIBER/VINYL-ESTER RESIN COMPOSITE

B McMorrow, R Chartoff, D Klosterman - SAMPE 2003 Proceedings - udri.udayton.edu ... enhanced mechanical, electrical, or thermal ... Processing of Carbon Nanotube/Polymer Composites," Chem ... Water-Solubilization of Single-Walled Carbon Nanotubes By ... Cited by 1 - View as HTML - Web Search

# The morphology and thermal properties of multi-walled carbon nanotube and poly (hydroxybutyrate-co- ...

M Lai, J Li, J Yang, J Liu, X Tong, H Cheng - **Polymer** International, 2004 - doi.wiley.com ... posed of graphene sheets rolled into cylinders, and multi-walled nanotubes, which ... used because of their cost advantage over **single**-wall **carbon** nan- otubes ... Web Search - ingentaconnect.com - csa.com

## Application of Nanotechnology for high performance textiles

L Qian, JP Hinestroza - tx.ncsu.edu

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## NANOFIBER TECHNOLOGY: Bridging the Gap between Nano and Macro World

FK Ko - NATO ASI on Nanoengineeered Nanofibrous Materials, 2003 - drexel.edu ... produced from an electrospun PAN **polymer** solution and **carbon nanotube** reinforced PAN. ... frequencies or bands of the **single walled carbon** nanotubes (SWCNT ... Cited by 1 - View as HTML - Web Search - drexel.edu

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... range from 50-100 microns [6]. Multi-walled carbon nanotube ... from 2-50 microns while single walled carbon nanotubes ... levels can cause the polymer's properties ... View as HTML - Web Search

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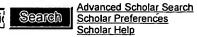
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HD Wagner, O Lourie, XF Zhou - Composites: Part A, 1999 - weizmann.ac.il ... compressive fragmentation of thin-walled carbon nanotubes in a ... toughness evaluation from the single-fiber fragmentation ... C, Trauth D. Aligned carbon nano-tube ... Cited by 1 - View as HTML - Web Search - ingentaconnect.com - csa.com - all 4 versions »

#### Template-based synthesis of nanomaterials

A Huczko - order - springerlink.com

... The nanostructure of GaN (a single crystal with fewer ... a membrane yielding extremely thin-walled (about 20 nm ... illustrate the formation process of carbon tubes by ... Cited by 28 - Web Search - dvo.ru - dns.ntu-ccms.ntu.edu.tw - adsabs.harvard.edu

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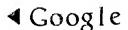
JC Hulteen, CR Martin - J. Mater. Chem, 1997 - pubs.rsc.org ... produce thin-walled tubules, thick-walled tubules or solid ... As noted, the carbon-PAN-Au composites were prepared ... 15(B) assumes a single 100 nm diameter disk ... Cited by 3 - Web Search

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## <u>Single-walled carbon nanotube--polymer composites: electrical, optical and structural investigation</u>

E Kymakis, I Alexandou, G Amaratunga - Synthetic Metals(Switzerland), 2002 - csa.com ... study on the interaction between **single-walled carbon** nanotubes (SWNTs ... of SWNTs embedded in the **polymer** matrix were ... by drop casting of the **nanotube**/P3OT mixture ... <u>Cited by 21 - Web Search</u>

## Preparation and Properties of Polymer-Wrapped Single-Walled Carbon Nanotubes

A Star, JF Stoddart, D Steuerman, M Diehl, A ... - Angewandte Chemie International Edition, 2001 - doi.wiley.com

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RH Baughman, C Cui, AA Zakhidov, Z Iqbal, JN ... - Science, 1999 - sciencemag.org ... for a polyaniline conducting **polymer** actuator (3 ... and a four-point probe **electrical conductivity** of ~5000 S ... Synthesis of Long **Single-Walled Carbon Nanotube** Strands ... Cited by 150 - Web Search - dx.doi.org - adsabs.harvard.edu - ncbi.nlm.nih.gov - all 5 versions »

### Nanotube composites- A recipe for strength

P Calvert - Nature, 1999 - nature.com ... In principle, the preference is to use **single-walled** tubes for ... because the inner layers of multi-**walled** tubes probably ... by exposing edges of the **carbon** planes. ... Cited by 33 - Web Search - csa.com

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Ż Jin, KP Pramoda, G Xu, SH Goh - Chemical Physics Letters, 2001 Cited by 31 - Web Search

#### Functionalization of Single-Walled Carbon Nanotubes

A Hirsch - Angewandte Chemie International Edition, 2002 - doi.wiley.com ... of the functionalization of **single- walled carbon** nanotubes demonstrate ... macroscopic quantities of this **carbon** allotrope has ... quality of the **nanotube** raw material ... Cited by 32 - Web Search

## Single-wall carbon nanotubes as attractive toughening agents in alumina-based nanocomposites

GD Zhan, JD Kuntz, J Wan, AK Mukherjee - Nature Materials, 2003 - nature.com ... & Rubio, A. Single-walled carbon nanotube—polymer composites: strength ... Fabrication of aluminum—carbon nanotube composites and their electrical properties ... Cited by 23 - Web Search - bbs.sjtu.edu.cn - ncbi.nlm.nih.gov - csa.com - all 6 versions »

## Advances in the science and technology of carbon nanotubes and their composites: a review

ET Thostenson, Z Ren, TW Chou - Composites Science and Technology, 2001 - tam.uiuc.edu ... constrained geometry of a multi-walled nanotube could produce an ... to that for a single unit cell ... in the direct characterization of carbon nanotubes, theoretical ...

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A ROUSSET - Acta mater, 2000 - w3.ldv.univ-montp2.fr ... powders, in which the carbon nanotubes, mostly single or double-walled, are very ... Page 2. 3804 FLAHAUT et al.: CARBON NANOTUBE-METAL-OXIDE NANOCOMPOSITES ... Cited by 34 - View as HTML - Web Search - w3.lcvn.univ-montp2.fr - atmsp.whut.edu.cn - ldv.univ-montp2.fr

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